

RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

Application Serial Number: 10/734,661C
Source: EFW/6
Date Processed by STIC: 4/27/07

ENTERED



IFW16

RAW SEQUENCE LISTING

DATE: 04/27/2007

PATENT APPLICATION: US/10/734,661C

TIME: 11:40:55

Input Set : A:\81408-4400 sequence listing.txt

Output Set: N:\CRF4\04272007\J734661C.raw

3 <110> APPLICANT: Yayon, Avner
 4 Rom, Eran
 5 Thomassen-Wolf, Elisabeth
 6 Borges, Eric
 8 <120> TITLE OF INVENTION: ANTIBODIES THAT BLOCK RECEPTOR PROTEIN TYROSINE
 KINASE ACTIVATION,
 9 METHODS OF SCREENING AND USES THEREOF
 11 <130> FILE REFERENCE: 81408-4400
 13 <140> CURRENT APPLICATION NUMBER: US 10/734,661C
 14 <141> CURRENT FILING DATE: 2003-12-15
 16 <150> PRIOR APPLICATION NUMBER: US 60/299,187
 17 <151> PRIOR FILING DATE: 2001-06-20
 19 <150> PRIOR APPLICATION NUMBER: PCT/IL02/00494
 20 <151> PRIOR FILING DATE: 2002-06-20
 22 <160> NUMBER OF SEQ ID NOS: 106
 24 <170> SOFTWARE: PatentIn version 3.2
 26 <210> SEQ ID NO: 1
 27 <211> LENGTH: 806
 28 <212> TYPE: PRT
 29 <213> ORGANISM: Homo sapiens
 31 <300> PUBLICATION INFORMATION:
 32 <308> DATABASE ACCESSION NO: np_000133
 33 <309> DATABASE ENTRY DATE: 2001-02-21
 34 <313> RELEVANT RESIDUES: (1)..(806)
 36 <400> SEQUENCE: 1
 38 Met Gly Ala Pro Ala Cys Ala Leu Ala Leu Cys Val Ala Val Ala Ile
 39 1 5 10 15
 42 Val Ala Gly Ala Ser Ser Glu Ser Leu Gly Thr Glu Gln Arg Val Val
 43 20 25 30
 46 Gly Arg Ala Ala Glu Val Pro Gly Pro Glu Pro Gly Gln Gln Glu Gln
 47 35 40 45
 50 Leu Val Phe Gly Ser Gly Asp Ala Val Glu Leu Ser Cys Pro Pro Pro
 51 50 55 60
 54 Gly Gly Gly Pro Met Gly Pro Thr Val Trp Val Lys Asp Gly Thr Gly
 55 65 70 75 80
 58 Leu Val Pro Ser Glu Arg Val Leu Val Gly Pro Gln Arg Leu Gln Val
 59 85 90 95
 62 Leu Asn Ala Ser His Glu Asp Ser Gly Ala Tyr Ser Cys Arg Gln Arg
 63 100 105 110
 66 Leu Thr Gln Arg Val Leu Cys His Phe Ser Val Arg Val Thr Asp Ala
 67 115 120 125
 70 Pro Ser Ser Gly Asp Asp Glu Asp Gly Glu Asp Glu Ala Glu Asp Thr
 71 130 135 140
 74 Gly Val Asp Thr Gly Ala Pro Tyr Trp Thr Arg Pro Glu Arg Met Asp

(pg. 6)

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75 145          150          155          160
78 Lys Lys Leu Leu Ala Val Pro Ala Ala Asn Thr Val Arg Phe Arg Cys
79          165          170          175
82 Pro Ala Ala Gly Asn Pro Thr Pro Ser Ile Ser Trp Leu Lys Asn Gly
83          180          185          190
86 Arg Glu Phe Arg Gly Glu His Arg Ile Gly Gly Ile Lys Leu Arg His
87          195          200          205
90 Gln Gln Trp Ser Leu Val Met Glu Ser Val Val Pro Ser Asp Arg Gly
91          210          215          220
94 Asn Tyr Thr Cys Val Val Glu Asn Lys Phe Gly Ser Ile Arg Gln Thr
95 225          230          235          240
98 Tyr Thr Leu Asp Val Leu Glu Arg Ser Pro His Arg Pro Ile Leu Gln
99          245          250          255
102 Ala Gly Leu Pro Ala Asn Gln Thr Ala Val Leu Gly Ser Asp Val Glu
103          260          265          270
106 Phe His Cys Lys Val Tyr Ser Asp Ala Gln Pro His Ile Gln Trp Leu
107          275          280          285
110 Lys His Val Glu Val Asn Gly Ser Lys Val Gly Pro Asp Gly Thr Pro
111          290          295          300
114 Tyr Val Thr Val Leu Lys Thr Ala Gly Ala Asn Thr Thr Asp Lys Glu
115 305          310          315          320
118 Leu Glu Val Leu Ser Leu His Asn Val Thr Phe Glu Asp Ala Gly Glu
119          325          330          335
122 Tyr Thr Cys Leu Ala Gly Asn Ser Ile Gly Phe Ser His His Ser Ala
123          340          345          350
126 Trp Leu Val Val Leu Pro Ala Glu Glu Glu Leu Val Glu Ala Asp Glu
127          355          360          365
130 Ala Gly Ser Val Tyr Ala Gly Ile Leu Ser Tyr Gly Val Gly Phe Phe
131          370          375          380
134 Leu Phe Ile Leu Val Val Ala Ala Val Thr Leu Cys Arg Leu Arg Ser
135 385          390          395          400
138 Pro Pro Lys Lys Gly Leu Gly Ser Pro Thr Val His Lys Ile Ser Arg
139          405          410          415
142 Phe Pro Leu Lys Arg Gln Val Ser Leu Glu Ser Asn Ala Ser Met Ser
143          420          425          430
146 Ser Asn Thr Pro Leu Val Arg Ile Ala Arg Leu Ser Ser Gly Glu Gly
147          435          440          445
150 Pro Thr Leu Ala Asn Val Ser Glu Leu Glu Leu Pro Ala Asp Pro Lys
151          450          455          460
154 Trp Glu Leu Ser Arg Ala Arg Leu Thr Leu Gly Lys Pro Leu Gly Glu
155 465          470          475          480
158 Gly Cys Phe Gly Gln Val Val Met Ala Glu Ala Ile Gly Ile Asp Lys
159          485          490          495
162 Asp Arg Ala Ala Lys Pro Val Thr Val Ala Val Lys Met Leu Lys Asp
163          500          505          510
166 Asp Ala Thr Asp Lys Asp Leu Ser Asp Leu Val Ser Glu Met Glu Met
167          515          520          525
170 Met Lys Met Ile Gly Lys His Lys Asn Ile Ile Asn Leu Leu Gly Ala
171          530          535          540

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174 Cys Thr Gln Gly Gly Pro Leu Tyr Val Leu Val Glu Tyr Ala Ala Lys
175 545                               550                               555                               560
178 Gly Asn Leu Arg Glu Phe Leu Arg Ala Arg Arg Pro Pro Gly Leu Asp
179                               565                               570                               575
182 Tyr Ser Phe Asp Thr Cys Lys Pro Pro Glu Glu Gln Leu Thr Phe Lys
183                               580                               585                               590
186 Asp Leu Val Ser Cys Ala Tyr Gln Val Ala Arg Gly Met Glu Tyr Leu
187                               595                               600                               605
190 Ala Ser Gln Lys Cys Ile His Arg Asp Leu Ala Ala Arg Asn Val Leu
191                               610                               615                               620
194 Val Thr Glu Asp Asn Val Met Lys Ile Ala Asp Phe Gly Leu Ala Arg
195 625                               630                               635                               640
198 Asp Val His Asn Leu Asp Tyr Tyr Lys Lys Thr Thr Asn Gly Arg Leu
199                               645                               650                               655
202 Pro Val Lys Trp Met Ala Pro Glu Ala Leu Phe Asp Arg Val Tyr Thr
203                               660                               665                               670
206 His Gln Ser Asp Val Trp Ser Phe Gly Val Leu Leu Trp Glu Ile Phe
207                               675                               680                               685
210 Thr Leu Gly Gly Ser Pro Tyr Pro Gly Ile Pro Val Glu Glu Leu Phe
211                               690                               695                               700
214 Lys Leu Leu Lys Glu Gly His Arg Met Asp Lys Pro Ala Asn Cys Thr
215 705                               710                               715                               720
218 His Asp Leu Tyr Met Ile Met Arg Glu Cys Trp His Ala Ala Pro Ser
219                               725                               730                               735
222 Gln Arg Pro Thr Phe Lys Gln Leu Val Glu Asp Leu Asp Arg Val Leu
223                               740                               745                               750
226 Thr Val Thr Ser Thr Asp Glu Tyr Leu Asp Leu Ser Ala Pro Phe Glu
227                               755                               760                               765
230 Gln Tyr Ser Pro Gly Gly Gln Asp Thr Pro Ser Ser Ser Ser Ser Gly
231                               770                               775                               780
234 Asp Asp Ser Val Phe Ala His Asp Leu Leu Pro Pro Ala Pro Pro Ser
235 785                               790                               795                               800
238 Ser Gly Gly Ser Arg Thr
239                               805
242 <210> SEQ ID NO: 2
243 <211> LENGTH: 32
244 <212> TYPE: DNA
245 <213> ORGANISM: Artificial Sequence
247 <220> FEATURE:
248 <223> OTHER INFORMATION: artificial primer
250 <400> SEQUENCE: 2
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254 <210> SEQ ID NO: 3
255 <211> LENGTH: 55
256 <212> TYPE: DNA
257 <213> ORGANISM: Artificial Sequence
259 <220> FEATURE:
260 <223> OTHER INFORMATION: artificial primer
262 <400> SEQUENCE: 3

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32

RAW SEQUENCE LISTING

DATE: 04/27/2007

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Input Set : A:\81408-4400 sequence listing.txt

Output Set: N:\CRF4\04272007\J734661C.raw

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263 acgtctcgag ttaatggtga tggatgatggt gtgcatacac acagcccgcc tcgtc      55
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267 <211> LENGTH: 1147
268 <212> TYPE: DNA
269 <213> ORGANISM: Homo sapiens
271 <300> PUBLICATION INFORMATION:
272 <308> DATABASE ACCESSION NO: m58051
273 <309> DATABASE ENTRY DATE: 1994-11-08
274 <313> RELEVANT RESIDUES: (1)..(1147)
276 <400> SEQUENCE: 4
277 gcgcgctgcc tgaggacgcc gcggcccccgc ccccgcccat gggcgcccccct gcctgcgccc      60
279 tcgcgctctg cgtggccgtg gccatcgtgg ccggcgccctc ctccggagtc ttggggacgg      120
281 agcagcgctg cgtggggcga gcggcagaag tcccgggccc agagcccgcc cagcaggagc      180
283 agttggtctt cggcagcggg gatgctgtgg agctgagctg tcccccgccc gggggtggtc      240
285 ccatggggcc cactgtctgg gtcaaggatg gcacagggtt ggtgccctcg gagegtgtcc      300
287 tgggtggggcc ccagcggctg caggtgctga atgcctccca cgaggactcc ggggcctaca      360
289 gctgccggca gcggctcacg cagcgcgtac tgtgccactt cagtgtgcgg gtgacagacg      420
291 ctccatcttc gggagatgac gaagacgggg aggacgaggc tgaggacaca ggtgtggaca      480
293 caggggcccc ttactggaca cggcccgcgc ggatggacaa gaagctgctg gccgtgccgg      540
295 ccgccaacac cgtccgcttc cgtgcccag ccgctggcaa cccactccc tccatctcct      600
297 ggctgaagaa cggcaggagag ttcccgcgcc agcacgcgat tggaggcatc aagctgcggc      660
299 atcagcagtg gacgtgggtc atggaagcgc ttggtgccctc ggaccgcggc aactacacct      720
301 gcgtcgtgga gaacaagttt ggcagcatcc ggcagacgta cacgtgggac gtgctggagc      780
303 gctccccgca ccggcccatc ctgcaggcgg ggctgccggc caaccagacg gcggtgctgg      840
305 gcagcgacgt ggagttccac tgcaagggtg acagtgcgc acagccccac atccagtggc      900
307 tcaagcacgt ggaggtgaac ggcagcaagg tgggcccga cggcacaccc tacgttacgg      960
309 tgctcaagac ggcggggcgt aacaccaccg acaaggagct agaggttctc tcttgcaca      1020
311 acgtcacctt tgaggacgcc ggggagtaca cctgcctggc gggcaattct attgggtttt      1080
313 ctcatcactc tgcgtggctg gtggtgctgc cagccgagga ggagctggtg gaggctgacg      1140
315 aggcggg      1147
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319 <211> LENGTH: 5695
320 <212> TYPE: DNA
321 <213> ORGANISM: EXPRESSION VECTOR pCEP-PU/AC7
323 <400> SEQUENCE: 5
324 gacggatcgg gagatctccc gatccctat ggtcgactct cagtacaatc tgctctgatg      60
326 ccgcatagtt aagccagtat ctgctccctg cttgtgtggt ggaggtcgct gactagtgcg      120
328 cgagcaaaat ttaagctaca acaaggcaag gcttgaccga caattgcatg aagaatctgc      180
330 ttagggttag gcgttttgcg ctgcttcgcg atgtacgggc cagatatacg cgttgacatt      240
332 gattattgac tagttattaa tagtaatcaa ttacggggtc attagttcat agcccatata      300
334 tggagttccg cgttacataa cttacggtaa atggcccgc ttggtgaccg cccaacgacc      360
336 cccgcccatt gacgtcaata atgacgtatg ttcccatagt aacgccaata gggactttcc      420
338 attgacgtca atgggtggac tatttacggg aaactgccca cttggcagta catcaagtgt      480
340 atcatatgcc aagtacgcc cctattgacg tcaatgacgg taaatggccc gcctggcatt      540
342 atgcccagta catgacctta tgggactttc ctacttgcca gtacatctac gtattagtca      600
344 tcgctattac catggtgatg cggttttggc agtacatcaa tgggcgtgga tagcggtttg      660
346 actcacgggg atttccaagt ctccacccca ttgacgtcaa tgggagtttg ttttggcacc      720
348 aaaatcaacg ggactttcca aaatgtcgta acaactccgc ccattgacg caaatgggcg      780
350 gtaggcgtgt acggtgggag gtctatataa gcagagctct ctggctaact agagaaccca      840

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Invalid
Response

← PLS
see item
#10 on
error
summary
sheet.

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Input Set : A:\81408-4400 sequence listing.txt

Output Set: N:\CRF4\04272007\J734661C.raw

| | | | | | | | |
|-----|-------------|------------|-------------|-------------|-------------|------------|------|
| 352 | ctgcttactg | gcttatcgaa | attaatacga | ctcactatag | ggagacccaa | gctggctagc | 900 |
| 354 | gttttaaactt | aagcttggtg | ccgagctcgg | atccccgtcg | tgcattctatc | gaaggtcgtg | 960 |
| 356 | gagatcccga | ggagcccaaa | tcttggtgaca | aaactcacac | atgcccaccg | tgcccagcac | 1020 |
| 358 | ctgaactcct | ggggggaccg | tcagtcttcc | tcttcccccc | aaaacccaag | gacacctca | 1080 |
| 360 | tgatctcccg | gaccctgag | gtcacatgcg | tggtggtgga | cgtgagccac | gaagacctg | 1140 |
| 362 | aggtcaagtt | caactggtac | gtggacggcg | tgagggtgca | taatgccaag | acaaagccgc | 1200 |
| 364 | gggaggagca | gtacaacagc | acgtaccggg | tggtcagcgt | cctcaccgtc | ctgcaccagg | 1260 |
| 366 | actggctgaa | tggaaggag | tacaagtgc | aggtctccaa | caaagccctc | ccagccccc | 1320 |
| 368 | tcgagaaaac | catctccaaa | gccaaagggc | agccccgaga | accacagggtg | tacacctgc | 1380 |
| 370 | ccccatcccg | ggatgagctg | accaagaacc | aggtcagcct | gacctgcctg | gtcaaaggct | 1440 |
| 372 | tctatcccag | cgacatcgcc | gtggagtggg | agagcaatgg | gcagccggag | aacaactaca | 1500 |
| 374 | agaccacgcc | tcccgtgctg | gactccgacg | gctccttctt | cctctacagc | aagctcaccg | 1560 |
| 376 | tggacaagag | caggtggcag | caggggaacg | tcttctcatg | ctccgtgatg | catgaggctc | 1620 |
| 378 | tgcacaacca | ctacacgcag | aagagcctct | ccctgtctcc | gggtaaatga | tctagagggc | 1680 |
| 380 | ccgtttaaac | ccgtgatca | gcctcgactg | tgctttctag | ttgccagcca | tctgttgttt | 1740 |
| 382 | gccccctccc | cgtgccttcc | ttgacctgg | aaggtgccac | tcccactgtc | ctttccta | 1800 |
| 384 | aaaatgagga | aattgcatcg | cattgtctga | gtaggtgtca | ttctattctg | gggggtgggg | 1860 |
| 386 | tggggcagga | cagcaagggg | gaggattggg | aagacaatag | caggcatgct | ggggatgcgg | 1920 |
| 388 | tgggtctctat | ggcttctgag | gcggaaagaa | ccagctgggg | ctctaggggg | tatccccacg | 1980 |
| 390 | cgccctgtag | cggcgcatta | agcgcggcgg | gtgtggtggt | tacgcgcagc | gtgaccgcta | 2040 |
| 392 | cacttgccag | cgccctagcg | cccgtcctt | tcgctttctt | cccttcttct | ctcgccacgt | 2100 |
| 394 | tcgccggctt | tccccgtcaa | gctctaaatc | ggggcatccc | tttaggggtc | cgatttagtg | 2160 |
| 396 | ctttacggca | cctcgacccc | aaaaaacttg | attaggggtga | tggttcacgt | agtgggcat | 2220 |
| 398 | cgccctgata | gacggttttt | cgccctttga | cgttggagtc | cacgttcttt | aatagtggac | 2280 |
| 400 | tcttgttcca | aactggaaca | acactcaacc | ctatctcggt | ctattctttt | gatttataag | 2340 |
| 402 | ggattttggg | gatttcggcc | tattggttaa | aaaatgagct | gatttaacaa | aaatttaacg | 2400 |
| 404 | cgaattaatt | ctgtggaatg | tgtgtcagtt | aggggtgtgga | aagtccccag | gctccccagg | 2460 |
| 406 | caggcagaag | tatgcaaagc | atgcatctca | attagtgcgc | aaccagggtg | ggaaagtccc | 2520 |
| 408 | caggctcccc | agcaggcaga | agtatgcaaa | gcattgcatt | caattagtca | gcaaccatag | 2580 |
| 410 | tcccgcacct | aactccgccc | atcccgcctc | taactccgcc | cagttccgcc | catttccgcc | 2640 |
| 412 | cccatggctg | actaattttt | tttatttatg | cagaggccga | ggccgcctct | gcctctgagc | 2700 |
| 414 | tattccagaa | gtagtgagga | ggcttttttg | gaggcctagg | cttttgcaaa | aagctcccgg | 2760 |
| 416 | gagcttgat | atccattttc | ggatctgatc | agcacgtggt | gacaattaat | catcggcata | 2820 |
| 418 | gtatatcggc | atagtataat | acgacaaggt | gaggaaactaa | accatggcca | agttgaccag | 2880 |
| 420 | tgccgttccg | gtgctcaccg | cgcgcgacgt | cgccggagcg | gtcgagttct | ggaccgaccg | 2940 |
| 422 | gctcgggttc | tcccgggact | tcgtggagga | cgacttcgcc | ggtgtggtcc | gggacgacgt | 3000 |
| 424 | gacctgttc | atcagcgcg | tccaggacca | ggtggtgccg | gacaacaccc | tgccctgggt | 3060 |
| 426 | gtgggtgcgc | ggcctggacg | agctgtacgc | cgagtggctg | gaggtcgtgt | ccacgaactt | 3120 |
| 428 | ccgggacgcc | tccggggccg | ccatgaccga | gatcggcgag | cagccgtggg | ggcgggagtt | 3180 |
| 430 | cgccctgcgc | gaccggccg | gcaactgcgt | gcacttcgtg | gccgaggagc | aggactgaca | 3240 |
| 432 | cgtgtctacga | gatttcgatt | ccaccgcgcg | cttctatgaa | aggttgggct | tcggaatcgt | 3300 |
| 434 | tttccgggac | gccggctgga | tgatcctcca | gcgcggggat | ctcatgctgg | agttcttcgc | 3360 |
| 436 | ccacccaac | ttgtttattg | cagcttataa | tggttacaaa | ttaaagcaata | gcatacacia | 3420 |
| 438 | tttcacaaat | aaagcatttt | tttactgca | ttctagttgt | ggtttgcca | aactcatcaa | 3480 |
| 440 | tgtatcttat | catgtctgta | taccgtcgac | ctctagctag | agcttggcgt | aatcatggct | 3540 |
| 442 | atagctgttt | cctgtgtgaa | attgttatcc | gctcacaatt | ccacacaaca | tacgagccgg | 3600 |
| 444 | aagcataaag | tgtaaagcct | ggggtgccta | atgagtgcgc | taactcacat | taattgcgtt | 3660 |
| 446 | gcgctcactg | cccgccttcc | agtcgggaaa | cctgtcgtgc | cagctgcatt | aatgaatcgg | 3720 |
| 448 | ccaacgcgcg | gggagaggcg | gtttgcgtat | tgggcgctct | tccgcttctt | cgctcactga | 3780 |

RAW SEQUENCE LISTING ERROR SUMMARY
PATENT APPLICATION: US/10/734,661C

DATE: 04/27/2007
TIME: 11:40:56

Input Set : A:\81408-4400 sequence listing.txt
Output Set: N:\CRF4\04272007\J734661C.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220>

to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:54; N Pos. 253,254,255

Seq#:56; N Pos. 256,257,258

Seq#:70; N Pos. 1,2,3

Seq#:74; N Pos. 1,2,3

Seq#:81; N Pos. 1,2,3

Seq#:83; N Pos. 1,2,3

VERIFICATION SUMMARY

DATE: 04/27/2007

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Input Set : A:\81408-4400 sequence listing.txt

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L:1612 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:54 after pos.:240
L:1662 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:56 after pos.:240
L:1968 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:70 after pos.:0
L:2064 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:74 after pos.:0
L:2234 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:81 after pos.:0
L:2286 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:83 after pos.:0